Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (canceled).

2. (currently amended): A system according to Claim [[1]] 8, further comprising:

a remote client recording a set of quality of life measures during the initial time period;

the database storing the collected quality of life measures set into the patient care record for the individual patient; and

the server receiving the quality of life measures set from the remote client, and assimilating the collected quality of life measures set into the reference baseline data stored in the patient care record.

3. (currently amended): A system according to Claim [[1]] 8, further comprising:

the medical device adapted to be implanted monitoring the individual patient while the individual patient is performing a prescribed set of timed physical stressors during the initial time period.

4. (currently amended): A system according to Claim [[1]] 8, further comprising:

a programmer reprogramming at least one of pacing interventions and pacing modes of the medical device adapted to be implanted during the initial time period; and

the medical device adapted to be implanted monitoring the individual patient subsequent to the reprogramming during the initial time period.

5. (currently amended): A system according to Claim [[1]] 8, further comprising:

a feedback recorder recording feedback from the individual patient during the initial time period;

the database storing the recorded feedback into the patient care record for the individual patient; and

the server receiving the recorded feedback from the remote client, and assimilating the recorded feedback into the reference baseline data stored in the patient care record.

6. (original): A system according to Claim 5, wherein the feedback recorder comprises at least one of an audio recorder, a digital camera, or a video camera.

7. (currently amended): A system according to Claim [[1]] 8, further comprising:

a set of acceptance parameters stored within the database with each acceptance parameter corresponding to the same type of patient information to which at least one of the reference measures relates;

the server further comprising:

an evaluation module analyzing the reference measures set for each patient care record against the acceptance parameters set; and

an acceptance module identifying each patient care record storing a reference measures set having at least one reference measure substantially non-conforming to the corresponding acceptance parameter.

8. (currently amended): A system ~~according to Claim 1, the application server further~~ for determining a reference baseline of patient information for automated remote patient care, comprising:

a medical device regularly recording and storing measures sets comprising individual measures which each relate to patient information by a medical device adapted to be implanted for an individual patient during an initial time period;

a database collecting one or more patient care records, comprising:

one or more patient care records which each comprise a plurality of the collected measures sets;

a database module storing the collected measures set into a patient care record for the individual patient within the database; and

a server, comprising:

a receiver receiving the collected device measures set from the medical device adapted to be implanted; and

an analysis module processing the collected device measures set into a set of reference measures, each reference measure being representative of at least one of measured or derived patient information, storing the reference measures set into the patient care record as data in a reference baseline indicating an initial patient status and analyzing one or more collected device measures sets in the patient care record for the individual patient relative to the reference measures sets in the reference baseline to determine a patient status indicator.

9. (currently amended): A system according to Claim 8, the ~~application~~ server further comprising:

the analysis module analyzing one or more of the collected device measures sets in the patient care record for the individual patient relative to one or more other collected device measures sets stored in the database to further determine the patient status indicator.

10. (currently amended): A system according to Claim [[1]] 8, wherein each of the set of reference measures is selected from the group comprising patient activity score, posture, atrial electrical activity, ventricular electrical activity, cardiovascular pressures, cardiac output, oxygenation, pulmonary measures, body temperature, PR interval, QRS measures, QT interval, ST-T wave

measures, potassium [K+] level, sodium [Na+] level, glucose level, blood urea nitrogen and creatinine, acidity (pH) level, hematocrit, hormonal levels, cardiac injury chemical tests, myocardial blood flow, central nervous system injury chemical tests, central nervous system (CNS) blood flow, and time of day and combinations and derivatives thereof.

Claim 11 (canceled).

12. (currently amended): A method according to Claim [[~~11~~]] 18, further comprising:

receiving a set of quality of life measures recorded by the individual patient during the initial time period ;

storing the collected quality of life measures set into the patient care record for the individual patient within the database; and

assimilating the collected quality of life measures set into the reference baseline data stored in the patient care record.

13. (currently amended): A method according to Claim [[~~11~~]] 18, further comprising:

monitoring the individual patient using the medical device adapted to be implanted while the individual patient is performing a prescribed set of timed physical stressors during the initial time period.

14. (currently amended): A method according to Claim [[~~11~~]] 18, further comprising:

reprogramming at least one of pacing interventions and pacing modes of the medical device adapted to be implanted during the initial time period; and

monitoring the individual patient using the medical device adapted to be implanted subsequent to the reprogramming during the initial time period.

15. (currently amended): A method according to Claim [[~~11~~]] 18, further comprising:

receiving feedback recorded by the individual patient during the initial time period which is interfaced to the server;

storing the recorded feedback into the patient care record for the individual patient within the database; and

assimilating the recorded feedback into the reference baseline data stored in the patient care record.

16. (original): A method according to Claim 15, wherein the feedback comprises at least one of audio, digitized imagery, or video feedback.

17. (currently amended): A method according to Claim [[~~11~~]] 18, further comprising:

defining a set of acceptance parameters with each acceptance parameter corresponding to the same type of patient information to which at least one of the reference measures relates;

analyzing the reference measures set for each patient care record against the acceptance parameters set; and

identifying each patient care record storing a reference measures set having at least one reference measure substantially non-conforming to the corresponding acceptance parameter.

18. (currently amended): A method ~~according to Claim 11, further~~ for determining a reference baseline of patient information for automated remote patient care, comprising:

regularly recording and storing measures sets comprising individual measures which each relate to patient information by a medical device adapted to be implanted for an individual patient during an initial time period;

receiving the collected device measures set from the medical device adapted to be implanted;

collecting one or more patient care records into a database, comprising:

organizing one or more patient care records which each comprise a plurality of the collected measures sets;

storing the collected measures set into a patient care record for the individual patient within the database;

processing the collected device measures set into a set of reference measures, each reference measure being representative of at least one of measured or derived patient information, and storing the reference measures set into the patient care record as data in a reference baseline indicating an initial patient status; and

analyzing one or more collected device measures sets in the patient care record for the individual patient relative to the reference measures sets in the reference baseline to determine a patient status indicator.

19. (original): A method according to Claim 18, further comprising:

analyzing one or more of the collected device measures sets in the patient care record for the individual patient relative to one or more other collected device measures sets stored in the database to further determine the patient status indicator.

20. (currently amended): A method according to Claim [[~~11~~]] 18, wherein each of the set of reference measures is selected from the group comprising patient activity score, posture, atrial electrical activity, ventricular electrical activity, cardiovascular pressures, cardiac output, oxygenation, pulmonary measures, body temperature, PR interval, QRS measures, QT interval, ST-T wave measures, potassium [K+] level, sodium [Na+] level, glucose level, blood urea nitrogen and creatinine, acidity (pH) level, hematocrit, hormonal levels, cardiac injury chemical tests, myocardial blood flow, central nervous system injury chemical tests, central nervous system (CNS) blood flow, and time of day and combinations and derivatives thereof.

21. (original): A computer-readable storage medium holding code for determining a reference baseline of patient information for automated remote patient care, comprising:

code for regularly recording and storing measures sets comprising individual measures which each relate to patient information by a medical device adapted to be implanted for an individual patient during an initial time period;

code for receiving the collected device measures set from the medical device adapted to be implanted;

code for collecting one or more patient care records into a database, comprising:

code for organizing one or more patient care records which each comprise a plurality of the collected measures sets;

code for storing the collected measures set into a patient care record for the individual patient within the database; and

code for processing the collected device measures set into a set of reference measures, each reference measure being representative of at least one of measured or derived patient information, and storing the reference measures set into the patient care record as data in a reference baseline indicating an initial patient status.

22. (original): A storage medium according to Claim 21, further comprising:

code for receiving a set of quality of life measures recorded by the individual patient during the initial time period;

code for storing the collected quality of life measures set into the patient care record for the individual patient within the database; and

code for assimilating the collected quality of life measures set into the reference baseline data stored in the patient care record.

23. (original): A storage medium according to Claim 21, further comprising:

code for monitoring the individual patient using the medical device adapted to be implanted while the individual patient is performing a prescribed set of timed physical stressors during the initial time period.

24. (original): A storage medium according to Claim 21, further comprising:

code for reprogramming at least one of pacing interventions and pacing modes of the medical device adapted to be implanted during the initial time period; and

code for monitoring the individual patient using the medical device adapted to be implanted subsequent to the reprogramming during the initial time period.

25. (original): A storage medium according to Claim 21, further comprising:

code for receiving feedback recorded by the individual patient during the initial time period;

code for storing the recorded feedback into the patient care record for the individual patient within the database; and

code for assimilating the recorded feedback into the reference baseline data stored in the patient care record.

26. (original): A storage medium according to Claim 21, further comprising:

code for defining a set of acceptance parameters with each acceptance parameter corresponding to the same type of patient information to which at least one of the reference measures relates;

code for analyzing the reference measures set for each patient care record against the acceptance parameters set; and

code for identifying each patient care record storing a reference measures set having at least one reference measure substantially non-conforming to the corresponding acceptance parameter.

27. (original): A storage medium according to Claim 21, further comprising:

code for analyzing one or more collected device measures sets in the patient care record for the individual patient relative to the reference measures sets in the reference baseline to determine a patient status indicator.

28. (original): A storage medium according to Claim 21, further comprising:

code for analyzing one or more of the collected device measures sets in the patient care record for the individual patient relative to one or more other collected device measures sets stored in the database to further determine the patient status indicator.

29. (original): A system for monitoring a patient status for using a reference baseline for automated remote patient care, comprising:

a server, comprising:

a processing module processing a set of collected measures regularly recorded by a medical device adapted to be implanted in an individual patient into a set of reference measures and storing the reference measures set in a reference baseline indicating an initial patient status, the collected device measures set comprising individual measures which each relate to patient information recorded by the medical device throughout an initial time period, each reference measure being representative of at least one of measured or derived patient information; and

an analysis module periodically receiving a set of collected measures from the medical device, the collected device measures set comprising individual measures which each relate to patient information recorded by the medical device subsequent to the initial time period, and comparing one or more of the subsequently collected device measures sets in the patient care record to the reference measures set and identifying any such subsequently collected measure substantially non-conforming to the corresponding reference measure; and

a database storing the patient care record, including the subsequently collected device measures set into the patient care record for the individual patient.

30. (currently amended): A system according to Claim 29, the ~~application~~ server further comprising:

an analysis module analyzing one or more of the subsequently collected device measures sets in the patient care record for the individual patient relative to one or more other subsequently collected device measures sets stored in the database to determine a patient status indicator.

31. (currently amended): A system according to Claim [[~~29~~]] 30, the ~~application~~ server further comprising:

a feedback module providing automated feedback based on the patient status indicator to the individual patient over a feedback communications link configured between the server and a feedback client.

32. (original): A system according to Claim 29, further comprising:

the server receiving initially feedback recorded by the individual patient during the initial time period and receiving feedback recorded by the individual patient subsequent to the initial time period;

the database storing the initially recorded feedback as reference feedback into the patient care record for the individual patient within the database and storing the subsequently recorded feedback into the patient care record for the individual patient; and

the analyzing module comparing the subsequently recorded feedback to the reference feedback in the patient care record and identifying any such subsequently recorded feedback substantially non-conforming to the reference feedback.

33. (original): A system according to Claim 32, wherein the patient feedback comprises at least one of audio, digitized imagery, or video feedback.

34. (currently amended): A system according to Claim 29, further comprising:

the ~~application~~ server further comprising a reevaluation module processing a new set of collected measures recorded by a medical device adapted to be implanted in an individual patient into a new set of reference measures, the new collected device measures set comprising individual measures which each relate to patient information recorded by the medical device adapted to be implanted subsequent to the initial time period, each new reference measure being representative of at least one of measured or derived patient information; and

the database storing the new reference measures set into the patient care record as a new reference baseline indicating a revised patient status.

35. (currently amended): A system according to Claim 29, further comprising:

the database storing an initial set of quality of life measures recorded by the individual patient during the initial time period into the patient care record within the database and storing a subsequently collected quality of life measures set received by the server into the patient care record for the individual patient;

the ~~application~~ server assimilating the initial quality of life measures set into the reference baseline data stored in the patient care record; and

the ~~application~~ server comparing one or more of the subsequently collected quality of life measures to the initial quality of life measures in the reference measures set and identifying any such subsequently collected quality of life measure substantially non-conforming to the corresponding quality of life reference measure.

36. (currently amended): A system according to Claim 29, the ~~application~~ server further comprising:

a monitoring module monitoring the individual patient using the medical device adapted to be implanted while the individual patient is performing a prescribed set of timed physical stressors during the initial time period.

37. (original): A system according to Claim 36, wherein the prescribed set of activities are representative of substantially normal activity, further comprising:

the server determining relative abnormal activity response based on any subsequently collected measure identified as being substantially non-conforming to the corresponding reference measure.

38. (original): A system according to Claim 36, wherein the prescribed set of activities are representative of substantially normal exercise, further comprising:

the server determining relative abnormal exercise response based on any subsequently collected measure identified as being substantially non-conforming to the corresponding reference measure.

39. (original): A system according to Claim 29, wherein the reference measures set comprises at least one of the following: patient activity score, posture, atrial electrical activity, ventricular electrical activity, cardiovascular pressures, cardiac output, oxygenation, pulmonary measures, body temperature, PR interval, QRS measures, QT interval, ST-T wave measures, potassium [K+] level, sodium [Na+] level, glucose level, blood urea nitrogen and creatinine, acidity (pH) level, hematocrit, hormonal levels, cardiac injury chemical tests, myocardial blood flow, central nervous system injury chemical tests, central nervous system (CNS) blood flow, and time of day and combinations and derivatives thereof.

40. (original): A method for monitoring a patient status for using a reference baseline for automated remote patient care, comprising:

processing a set of collected measures regularly recorded by a medical device adapted to be implanted in an individual patient into a set of reference measures and storing the reference measures set in a reference baseline indicating an initial patient status, the collected device measures set comprising individual

measures which each relate to patient information recorded by the medical device throughout an initial time period, each reference measure being representative of at least one of measured or derived patient information;

periodically receiving a set of collected measures from the medical device, the collected device measures set comprising individual measures which each relate to patient information recorded by the medical device subsequent to the initial time period;

comparing one or more of the subsequently collected device measures sets in the patient care record to the reference measures set and identifying any such subsequently collected measure substantially non-conforming to the corresponding reference measure; and

storing the patient care record in a database, including the subsequently collected device measures set into the patient care record for the individual patient.

41. (original): A method according to Claim 40, further comprising:

analyzing one or more of the subsequently collected device measures sets in the patient care record for the individual patient relative to one or more other subsequently collected device measures sets stored in the database to determine a patient status indicator.

42. (currently amended): A method according to Claim [[40]] 41, further comprising:

providing automated feedback based on the patient status indicator to the individual patient over a feedback communications link configured between a server and a feedback client.

43. (original): A method according to Claim 40, further comprising:

receiving feedback recorded by the individual patient during the initial time period and storing the recorded feedback as reference feedback into the patient care record for the individual patient within the database;

receiving feedback recorded by the individual patient subsequent to the initial time period;

storing the subsequently recorded feedback into the patient care record for the individual patient within the database; and

comparing the subsequently recorded feedback to the reference feedback in the patient care record and identifying any such subsequently recorded feedback substantially non-conforming to the reference feedback.

44. (original): A method according to Claim 43, wherein the patient feedback comprises at least one of audio, digitized imagery, or video feedback.

45. (original): A method according to Claim 40, further comprising:

processing a new set of collected measures recorded by the medical device into a new set of reference measures and storing the new reference measures set into the patient care record as a new reference baseline indicating a revised patient status, the new collected device measures set comprising individual measures which each relate to patient information recorded by the medical device adapted to be implanted subsequent to the initial time period, each new reference measure being representative of at least one of measured or derived patient information.

46. (original): A method according to Claim 40, further comprising:

storing a set of quality of life measures recorded by the individual patient during the initial time period into the patient care record and assimilating the quality of life measures into the reference baseline data stored in the patient care record;

receiving a quality of life measures set recorded by the individual patient subsequent to the initial time period;

storing the subsequently collected quality of life measures set into the patient care record for the individual patient within the database; and

comparing one or more of the subsequently collected quality of life measures to the quality of life measures in the reference measures set and

identifying any such subsequently collected quality of life measure substantially non-conforming to the corresponding quality of life reference measure.

47. (original): A method according to Claim 40, further comprising:

monitoring the individual patient using the medical device adapted to be implanted while the individual patient is performing a prescribed set of timed physical stressors during the initial time period.

48. (original): A method according to Claim 47, wherein the prescribed set of activities are representative of substantially normal activity, further comprising:

determining relative abnormal activity response based on any subsequently collected measure identified as being substantially non-conforming to the corresponding reference measure.

49. (original): A method according to Claim 47, wherein the prescribed set of activities are representative of substantially normal exercise, further comprising:

determining relative abnormal exercise response based on any subsequently collected measure identified as being substantially non-conforming to the corresponding reference measure.

50. (original): A method according to Claim 40, wherein the reference measures set comprises at least one of the following: patient activity score, posture, atrial electrical activity, ventricular electrical activity, cardiovascular pressures, cardiac output, oxygenation, pulmonary measures, body temperature, PR interval, QRS measures, QT interval, ST-T wave measures, potassium [K+] level, sodium [Na+] level, glucose level, blood urea nitrogen and creatinine, acidity (pH) level, hematocrit, hormonal levels, cardiac injury chemical tests, myocardial blood flow, central nervous system injury chemical tests, central nervous system (CNS) blood flow, and time of day and combinations and derivatives thereof.

51. (original): A computer-readable storage medium holding code for monitoring a patient status for using a reference baseline for automated remote patient care, comprising:

code for processing a set of collected measures regularly recorded by a medical device adapted to be implanted in an individual patient into a set of reference measures and storing the reference measures set in a reference baseline indicating an initial patient status, the collected device measures set comprising individual measures which each relate to patient information recorded by the medical device throughout an initial time period, each reference measure being representative of at least one of measured or derived patient information;

code for periodically receiving a set of collected measures from the medical device, the collected device measures set comprising individual measures which each relate to patient information recorded by the medical device subsequent to the initial time period;

code for comparing one or more of the subsequently collected device measures sets in the patient care record to the reference measures set and identifying any such subsequently collected measure substantially non-conforming to the corresponding reference measure; and

code for storing the patient care record in a database, including the subsequently collected device measures set into the patient care record for the individual patient.

52. (original): A storage medium according to Claim 51, further comprising:

code for analyzing one or more of the subsequently collected device measures sets in the patient care record for the individual patient relative to one or more other subsequently collected device measures sets stored in the database to determine a patient status indicator.

53. (currently amended): A storage medium according to Claim [[~~51~~]] 52, further comprising:

code for providing automated feedback based on the patient status indicator to the individual patient over a feedback communications link configured between the server and a feedback client.

54. (currently amended): A storage medium according to Claim 51, further comprising:

code for ~~storing~~ receiving feedback recorded by the individual patient during the initial time period which is interfaced to the server and storing the recorded feedback as reference feedback into the patient care record for the individual patient within the database;

code for receiving feedback recorded by the individual patient subsequent to the initial time period which is interfaced to the server;

code for storing the subsequently recorded feedback into the patient care record for the individual patient within the database; and

code for comparing the subsequently recorded feedback to the reference feedback in the patient care record and identifying any such subsequently recorded feedback substantially non-conforming to the reference feedback.

55. (original): A storage medium according to Claim 51, further comprising:

code for processing a new set of collected measures recorded by a medical device adapted to be implanted in an individual patient into a new set of reference measures and storing the new reference measures set into the patient care record as a new reference baseline indicating a revised patient status, the new collected device measures set comprising individual measures which each relate to patient information recorded by the medical device adapted to be implanted subsequent to the initial time period, each new reference measure being representative of at least one of measured or derived patient information.

56. (original): A storage medium according to Claim 51, further comprising:

code for storing a set of quality of life measures recorded by the individual patient during the initial time period into the patient care record and assimilating the quality of life measures into the reference baseline data stored in the patient care record;

code for receiving a quality of life measures set recorded by the individual patient subsequent to the initial time period which is interfaced to the server;

code for storing the subsequently collected quality of life measures set into the patient care record for the individual patient within the database; and

code for comparing one or more of the subsequently collected quality of life measures to the quality of life measures in the reference measures set and identifying any such subsequently collected quality of life measure substantially non-conforming to the corresponding quality of life reference measure.

57. (original): A storage medium according to Claim 51, further comprising:

code for monitoring the individual patient using the medical device while the individual patient is performing a prescribed set of timed physical stressors during the initial time period.

58. (original): A storage medium according to Claim 57, wherein the prescribed set of activities are representative of substantially normal activity, further comprising:

code for determining relative abnormal activity response based on any subsequently collected measure identified as being substantially non-conforming to the corresponding reference measure.

59. (original): A storage medium according to Claim 57, wherein the prescribed set of activities are representative of substantially normal exercise, further comprising:

code for determining relative abnormal exercise response based on any subsequently collected measure identified as being substantially non-conforming to the corresponding reference measure.